

Soil and Water Remediation, Groundwater/Vadose Zone (RL-0030)

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Well Decommissioning



ZP-1 Well Drilling



ETF Resin Regeneration



Overview

This section addresses Project Baseline Summary (PBS) RL-0030, *Soil and Water Remediation, Groundwater/Vadose Zone*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of July 2007.

Notable Accomplishments

- **River Corridor**
 - Completed apatite barrier injections at 100-NR-2 wells. (Performance Incentive [PI]).
 - Received approval for twelve well locations as part of the "Horn" chromium investigation.
 - Received RL and Environmental Protection Agency (EPA) approval for location of new wells to support the K expansion for chromium. (PI)
 - Completed 30 percent design review of the KR-4 pump and treat expansion. (PI)
 - Initiated round-the-clock operation of the electrocoagulation system for chromium treatment. (PI)
 - Completed drilling twelve wells for the biostimulation treatability test in 100-D.
 - Completed drilling an integrated (with Washington Closure Hanford) soil/groundwater monitoring well.
- **Integration**
 - Transmitted the draft Integrated Groundwater and Vadose Zone Management Plan to DOE-HQ, the regulators, the Hanford Advisory Board River and Plateau Committee, the State of Oregon, and the Tribal Nations for their review.
 - Held a workshop to begin discussions to better understand groundwater data gaps for cleanup decisions in the 100 and 300 Area.

FY 2007 Funds vs. Spend Forecast (\$M)

	Projected FY 2007 Funding	FY 2007 Fiscal Year Spend Forecast	Variance
Soil & Water Remediation, Groundwater/Vadose Zone	\$ 91.9	\$ 80.2	\$ 11.7

Schedule/Cost Performance (\$M)

Soil & Water Remediation, Groundwater/Vadose Zone	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion (FY07/CTD)
Current Period (Month)	\$6.4	\$5.8	\$5.0	-\$0.6	-9.7%	\$0.8	13.7%	\$76.8
Cumulative-to-Date (FY 2004-Present)	\$191.8	\$185.5	\$187.4	-\$6.4	-3.3%	-\$1.9	-1.0%	\$303.7

Numbers are rounded to the nearest \$0.1M and include the Closure Services allocation.

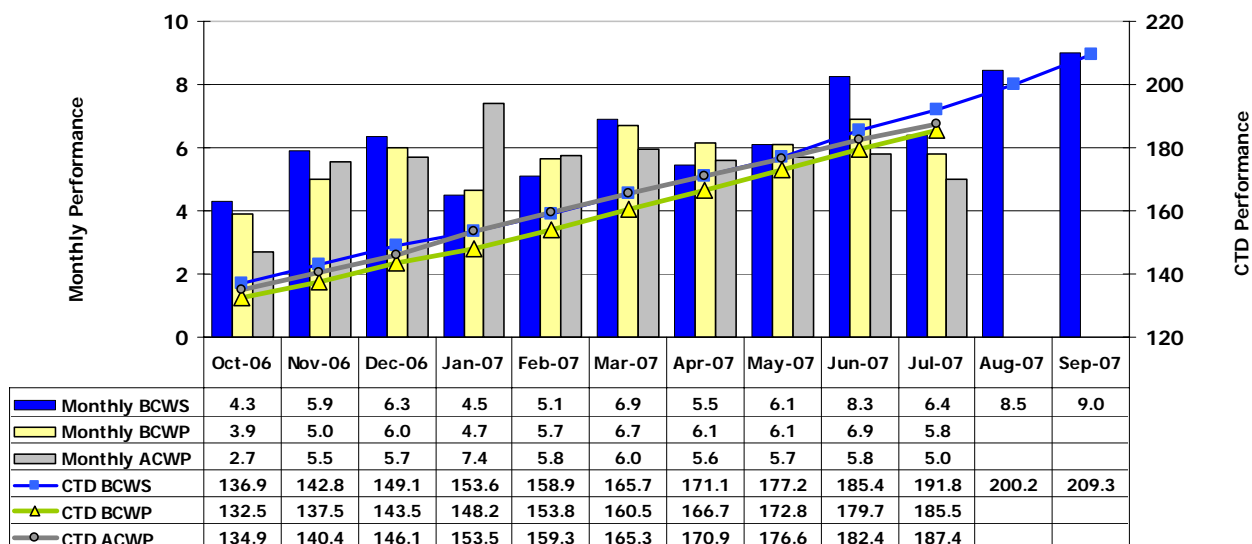
CTD Schedule Performance (-\$6.4M/-3.3%):

- The CTD schedule variance reflects delayed progress in three areas: 1) well drilling delays caused by unanticipated cultural resource issues and by onsite labor shortages; 2) pump and treat system resin regeneration delays caused by offsite shipping restrictions, and 3) resource constraints associated with sampling and analysis. The cultural resource issues and labor shortages are being worked, but it is expected that at least \$1.5 million worth of drilling will be carried into FY 2008. DOE is actively working the offsite shipping restrictions, and Fluor Hanford, Inc. is testing onsite resin regeneration.

CTD Cost Performance (-\$1.9M/-1.0%):

- The CTD cost variance is attributable to three major contributors: 1) higher than estimated costs for the K West pump and treat system expansion, 2) prior-year issues associated with well drilling and decommissioning, and 3) prior-year estimating shortfalls associated with management and integration. These overruns have been partially offset by favorable overhead pass backs and lower than expected costs associated with pump and treat operations.

Performance Analysis CTD and Monthly (\$M)



Milestone Achievement

Number	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status/Comments
RL-30						
M-013-06B	Submit the 200-BP-5 OU RI/FS Work Plan to EPA	TPA	3/31/2007	3/30/2007		Complete
M-016-14A	Complete Construction of a 300 foot Permeable Reactive Barrier Utilizing Apatite Sequestration at 100-N	TPA	5/31/2007	3/25/2007		Complete
M-015-48B	Submit the 200-ZP-1 OU Feasibility Study Report / Proposed Plan to EPA	TPA	9/30/2007		9/30/2007	On Schedule
M-013-10A	Submit the 200-PO-1 OU Remedial Investigation/Feasibility Study to Ecology	TPA	9/30/2007		8/30/2007	Going Thru Closure Process
M-024-57M	Install a Cumulative of 60 Wells	TPA	12/31/2007	4/6/2007		Complete
M-015-50	Submit a Treatability Work Plan for Deep Vadose Zone Technetium and Uranium to Ecology and EPA	TPA	12/31/2007		12/31/2007	On Schedule